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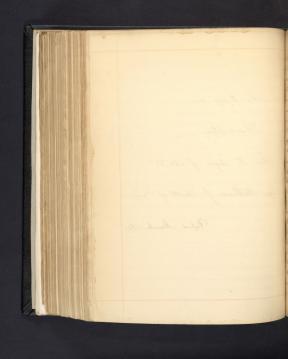
An Epay on

Haemoptysis

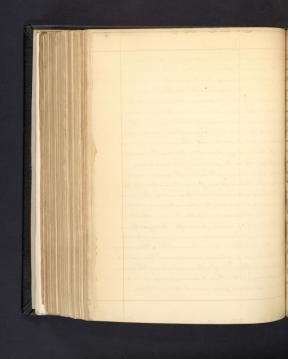
For the degree of M.D.

By William & Scott of Vinginia

Paped March 1825



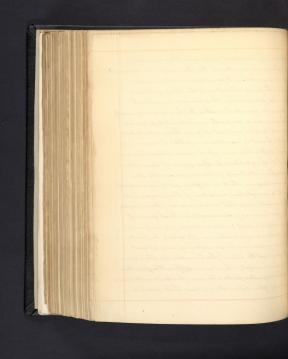
Maemoplysis By this term we mean a discharge of blood either from the lungs traches or fauces. To be enabled to Hat we should be acquainted with the causes and diagnosties of the disease. In a majority of cases where the blood comes from the fands, ex can by inspedien discover its real source and it is thrown up by mere hawking, without cough, puin, opportsion or febrile excitement. The same nearly may be said of harmonthagy from the tracker. It does not occur so frequently as the former, but when it does take place it is always attended with great danger We distinguish have maptysis from havematemens, by the latter being always attended by vomiting the blood is uniformly mixed with other substances that were in the stomach and is thicken and blacker than that which comes from the lunger of gain the system sinks much sooner, from copines harmatemesis than from harmostysis. Harmoshagy from the lungs is always accompanied by coughings the blood is prothy and of a florid redectour. The causes that give origin to other harm or hages do in a greater or less degree give rise to haim of typis.



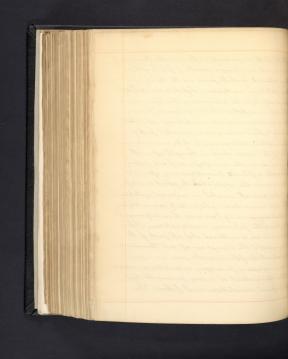
but there are some that act obicially in conducing to the excitement of this disease, such as a narrow contracted thorax, long neck, elicated shoulders, delicate habit, and surguineous temperament. This predifficition is excited into action by a variety of circumstances the more prominent of which are loud and long speeking frequent ringing, bursts of laughter violent puronysmo of angen, excepive exercise, vicipitudes of weather intemperance, and the supposion of some accustomed wacutation. There are several species of haim options attended with different degrees of danger First, the accidental ruptione of a repol from a fall or blow. Here the danger is trifting if the vepel be small and there be not precious direare of the lungs. Against may arise from excepir inflammation of the lungs as acrobe pricumonia. This is not often dangerous. Harmaplysis arises from the handation of a sisease from some other part to the lungs, as in the apprepion of the catamenial or hacmorrhoidal fluxes. This is not avery denous concurrentance provided there keno uncommon susceptibility to pectoral diseases Caemoptiguis is sometimes the consequence of plethora or vast accumulations of blood in the lungs



occasioning periodical discharges. There cases are not always irremediable the they very often terminate in everythin. Harmophysis sometimes arises from absorpes or whereations of the lungs following illured preumonia. The discharge is mined with phlegen or purelent matter The these cases are generally to be considered desperate and almost hopeless we are not on this account to give them isportatione apisted by art is sometimes enabled to overcome great difficulties, and effect cures where they are least to be expected. Another species of harmospypio wires from tuberels of the lungs, and the the haemorrhagy in itself is trifling, yet being connected with a serofulous condition of there organs it Her resists over best endeavour and terminates in pulmonary consumption. That species of my fecture consideration is the active or febrile. which is ushered in by arens olien of every het and ofpression at the chest heat under the stormer. adry hard cough, short and difficult respiration a full irregular pulse a humid flushed countenance and very often before the ruft time take place a

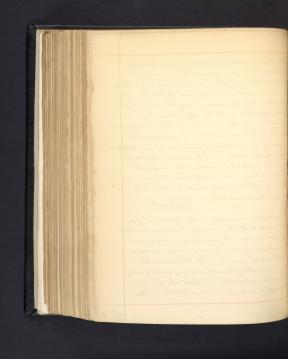


sattisk task is perceived in the mouth. Oceaninally the ease puts on stronger marks of Jebrile action being attended by chills pains in the back and hins Hatulency constitution Sapoitude and debillets finitation is fell at the tip of largon Fordieve this ahanking is made which brings up a little blood of a florid colour, and somewhat pothy. The irritation returns and in like manner more ford of the same land is brought up, with some noise in the windsipe as of air paping Through a fluid? Harmsplyns very often takes place during the night while the potient is artup and free from all mental or corporeal agotation. This has never been satisfactorily accounted for. The phenomenon may I americe he readily accounted for from the following considerations. Then aperson is in a natural sleep all parts of the body except the lungs are at rest. Thecontractions and relaxations of the murdes seem in agreat degree necessary for sarrying on anactive circulation, These being absent it is very presumable that alanguid circulation will follow. The



belines of aperson a sleep very plainly proves that the blood is confined more to the large vepels then, than during the day when he is a waken The brain is another source from which I derive apolance in endeavouring to explain this phenomenon Thave no doubt that during rlup the repels of the brain are, considerably emptied. and that this condition is absolutely necepary proles to take place Nothing more is wanting to account for the difficulty of falling wheep when there is unnatural determination of Hood to the head. The delirium in low powers which very much resembles sleep is accounted for in this way. It also affords un cargosplanation of the Modus Operande of opium in these cases. All these circumstances taken intronsideration together with the absence of the senses warrant the conclusion that the lungs in their presisposed or perhapse already diseased condition become a centre of fluxion. The resperaturdance of blood which is derived from its deficit in almost wary other part of the body is directed with peculiar force to the lange from their continual

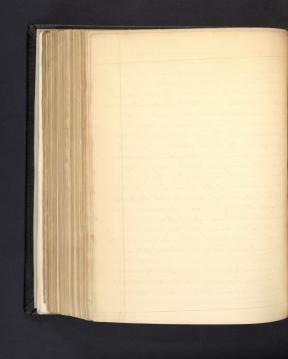
action their diseased condition and porture of the body. Thus giving rise to immense accumulations of Hord in those organs which causes so much invarints and difficulty of respiration, that the patient awaker jumps up in bed aprighted with the apprehension of suffication. By this exection the blood is aroused from its inactivity and in its endeavour to racede from its encroachments on from prepure caused by the strong and humied inspirations which the patient is certain to make, the already distended and weathered refrets give way Allowed by all those phenomena which have already been discribed. Treatment The most drives indication in the treatment of this is to put a stop to the haven orrhaigy. For this purpose venesection is the best remedy. The propriety of venescotion in haven optysis has been deried by a very relatrated practitioner of Sondon. De Teberden. His arguments the plausible and ingenious are by nomeans satisfactory. In fact the officery of the practice is sufficient reputation to his



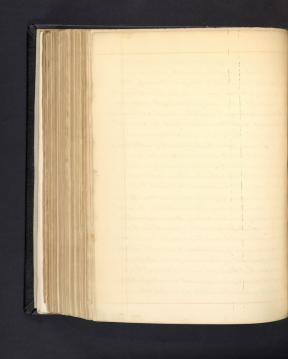
objections. To derive full advantage from it however we should apply it toldly. The small and repeated bludings recommended by come writers are. idle and even mischievous. They detilitated without giving the smallest respite to the sufferer. It is proper in all proper have have hage to draw blood espiously from a large cripice untill we give relief. The lange in these cases are very apt to take or inflower mation and it is our duty to prevent it by a proper we of the lancet. It is a common and very good practice to give table salt at this stage of the disease, in done of a table specufull. Phonede of operation is not astoirty Inown. It is byrome blives that the action which it excites in and about the Jauces, is, by continuous sympathy extended down the tracker and by its stippie operation astringer the mouths of the bleeding refels. Pthink it more probable that it ach as a counter instant directing the blood from the lungs by its distant writation. With the view of suppoping the harmorchage cold applications have been mude to different park of the body but more particularly to the thorax and axilla. No fast of the body is more susceptible to the impression of cold than the axilla



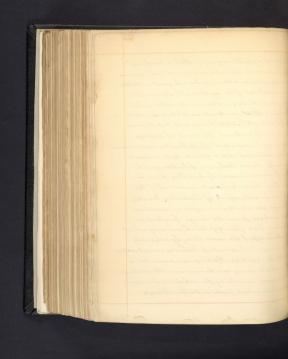
Clothe with with cold water or very ar or ice onclosed in a bladder should be applied to axilla. Thereare important remedies in the onset of the disease and should not be overlooked. By some practitioners weathing up the bedy in wet clothes has been recommended. This is an intrefie practice and should not be resorted to untill milder measures have been ineffectually tried. This was the favourite practice of the late Dr Bond. The Sacchanum Sahirm has been justly maised in the heatment of thirdistase Hwas first weel by some of the older writing the continent, but was for along time laid ande on account of the donunciation of fir & Baken. It fell to the lot of the late De Barton he depipate there false and idle objections to it, were and entablish it as a rate and officious remedy in the treatment of harmof typis chis generally the case with new remedies, it has been too indisnaminotoly employed without regard to the condition of the pulse. with arterial action has been sufficiently reduced Hemmest bled as long as there is preternatural existement



It is generally given in to small doses it may with notaty and advantage to increased. Alum is an important womedy, but belongs inclurively to the reduced and protracted cases, with the view of heeping down arterial action and preventing the recurrence of the harmonhagy Digitalis is anold and favorite but havens & doubt been abused by its los general employment. The ininds of practitioners seem now to be made up as to the propriety of withholding its suplogment antit vascular action has been sufficiently reduced by previous venerection cha substitute for the lancel where there exist much whereal action it should never be trusted. Even after we have reduced action by direct depletion of prever much inferior to many other articles. In the usual mode of administration, a long time clapses before the pulse is at all affected, and if we give it in larger down it is aft to induce vomiting, which is an ognivocal and sometimes very permisions remedy. Digetales is not appropriate in the more petrile shapes of the disease but there are some forms of it in which it display uniquivocal marker of utility The cases to which the article is snited are



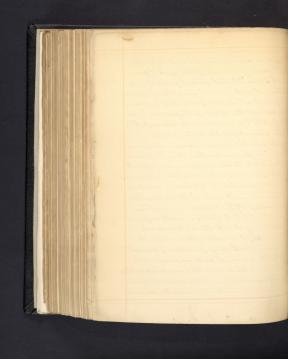
marked by a slight orging of blood, a hacking sough, pain in the side and breast, with a quick and rome times active pulse with great mobility and weather of the system. To bleed in there cares would be hagardous in the entreme and it is here that we thould outstitute digitalis for the lancet. Chibited here so as to Keep the probe down to its natural standard, it displays certain and important effects. Emetics were introduced in the breakment of this disease. sixty or seventy yanago, ly, Brian Robinson of Dublin, and the highly recommended by him they have been for a long time laid assite on account of the unfavourable reports of Inbullen. Emetics however, are sometimes unefull in arresting baem orrhagy from the lungs. Spontaneous somiting has often effected it, and may wend cornetimes effect the same thing by artificially inducing that eperation? Instances are not wanting to purtify the expectation. Dr Chapman declares that in the most alarming case he ever raw, the discharge was enterely arrested by the exhibition of a dore of digitalis which puted violently atthough



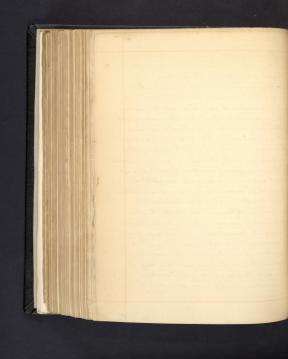
sminently writell in some desperate eases, get the ametre practice is exceedingly dangerous and should not be reserted to until all other milder preasures have failed, and more expecially if a large aspol has been ruptured. but should there be only a slight vaising of blood arising from tutercles or anastomoris the remedy is proffectly safe and sometimes preominently wefull. It diffuses the blood qually ever the body, removes entanesus construction, calons the disturbed state of the system, and lepens the anxiety, cough, sanguineous expectoration, and difficulty of respiration. The emitic lastar is perhopse the best perticle for the purpose, but more particularly as a nouseant in the febrile cases. The vibrishe solution has been highly recommended by Allerely and Barton. This medicine has not been extensively enough auployed to decide upon its comparative merits. Accounted is a remedy of far less doubtfull characters I has been used in numerous and diversified cares, and always with beneficial results.



It should be administered so as to keep up a elight degree of nausea, for the space of from 12 to 36 hours. The best mode of giving it is to combine it with small quantities of opium and give it at such intervals that each dose may been up the effect of the previous one. The whole of the newtral raths are usefulling Jebrile harmoftypis, the nitras potatore is particularly go. No medicine is more employed in fever of an inflammatory than this It is peculiarly well suited to the case under consideration. It Groves beneficial not in arresting the harmorrhagy by its astringency; but by its powers is reducing sascular action It is one of the bestauriliares to renescation. Withis Potapae is sometimes given alone, but its officery is vartly improved by combining it with the autimonials in Then we wish its divertie offeet we should recompany it with large quantities of diluent winks. The mineral acids are given with the same intention as the preceding article. They are considered more astringent, and hence we reserted to much earlier in the disease.

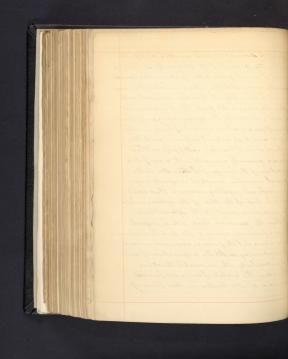


The sulphanie is prefered is prefered in these cases where the bleeding has not been suppreped only one that reems entitled to confidence is opium, or rather it, can be made to answer all the indications that the other are capable of pulfilling. Naresties were first employed in this deseare by the Germans, and were aftervands introduced into England They were prescribed with the view of calming initation and by their suppored sedative effect to reduce unterial action. The narrobest are applicable only to these cases where there is great instation and intolerable cough, which theeps up the have workage After we have stopped the flow of blood by these remedies, the neutral nathecome in very well Harmopupis is frequently protracted and dependent on irritation existing in the lungs. Here we must appeal to the vincating applications. There is however, great diversity of opinion as to the proper place of application. Joure assibe infinitely more advantage to them

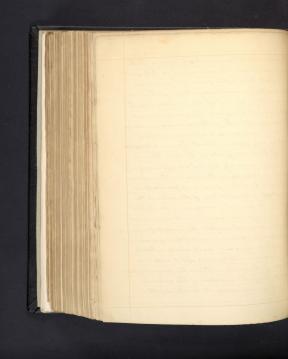


when applied to the catremities. Other prefer Hem to the back of the neck . But we should here as in all other cases unlep we wish them to act by reculsion apply them immediately over the real of the disease. In fact the officery Alloten is always proportionate to their proximity to the reat of the disease. The the operation of Misters in this disease is not very striking. get we cannot dispense with them. It often happens that eases of this after resisting our best remedies, uddenly gields to the application of a blisten This is the course that has generally been pursued in Ho management of this disease, but that it should have full effect it is nocepary that we should attend to other circumstances. As roon as we are called to a case we should direct The patient to be put to bed with his shoulder and head elevated and his entremities extended. He should never be permitted to double himself up in bed. This porture acts very bowerfully in reexciting the haemorrhages His chamber is to be left cool by free ventitation. Company must be entirely excluded, and the

patient be directed to talk as little as popible. During the prograp of the disease the diet should count of small quantities of demuleent drinks agreeably acidulated. The patient must not on any account be permitted to lead his stomach with be kept soluble by the refrigerating purg atives. Harmoptopis sometimes instead of being marked by fever and high arterial action, is quite the contrary, or as it has been called, papier. There cases are generally connected with a sor ofulous condition of the lungs. Whether this be the original condition ornot, it is equally proper to presente all depletory measures Our object here is to keep up the time of the systems and for this prospose we resert to the different tomis. Of these the peruvian bask is to be proposed. It was a favourite reenedy of Ex Rush. It is commonly given aloves but it power is very much increased by combining withit the preparations of eron and particularly the miniated tinctures Alum and the acetate of lead were favourite remedies of DR bullen in this form of



the diseases but they are certainly inferior to the mineral acids. The acids are ninch betterquited to the fable than active forms of harm oplysis. Harmoptysis sometimes attends pulmonary consumption, and of all the remedies here. the nitrie and is to be profesed. There remedies should be accompanied with gentle exercise a nowishing siet, and such drieds a strengthen without heating the system. Malt liquers are proposed and of these old porter is the best. This is the course generally that not always succeptully pursued in managing this disease. We semetime fail entirely cither, from some peculiarity in the attack or constitution of the patient. The disease is often received from enfroure to the slightest causes, and to guard against it with any prospect I success we must incultants the necepity of cheening a regular and absternious made of diving avoiding. very existing cause and particularly catarrh, than which nothing is so apt to induce a return of the disease. Where the predisposition is very strong the condition of the pulsiand lungs are particularly to be attended to



Any unisual activity in the blood repels, or pain or opprepion about the chest are symptoms demanding our immediate attention We should direct real bleedings and a low diet, with an occasional lanative, and where not absolutely objected to a perpetual blisteri which is sometime of more benefit than evry thing ilse in obstinate cases. The attendive use of mercury should not be overlooked. When come the with a tubercular condition of the lungs emetics are execution gly wrefull as preventives of the harmorthayy. Cases of harm options do somitimes owner where the lung are so very much diseased that our best Hans of treatment prove altogather ineffectual. Here as a last resource we should advise the patient to make a voyage by sea to some warmer climate. Cases of recovery from it are sufficiently numerous and well authenticated to justify us in the measures Mercine and a to a self will him